

Title (en)

Twin crankshaft mechanism with arced connecting rods

Title (de)

Doppelkurbelwellenmechanismus mit gebogenen Pleuelstangen

Title (fr)

Mécanisme de vilbrequins double comportant des bielles arquées

Publication

EP 0851130 A1 19980701 (EN)

Application

EP 97300966 A 19970214

Priority

US 77709696 A 19961230

Abstract (en)

The invention relates to an improved crankshaft connecting rod mechanism providing altered reciprocating motion of a piston attached to the connecting rods. The basic mechanism has two, geared-together, counter rotating crankshafts 1 which are supported by bearings 4 and can thus rotate about their respective axes 6. The bearings 4 are fixed and oriented by the crankcase 16 which contains the crankshafts and provides an attachment of fixed position for a reciprocating guide, cylinder 17. The parallel crankshaft axes 6 are spaced apart and disposed symmetrically on either side of the transverse center plane 8 of the mechanism and are aligned transversely and to the longitudinal center plane 7 of the mechanism. That is, the midpoint of each crankpin 9 is in the longitudinal center plane 7. These two crankshafts 1 are phased together, in this particular case by gears 2 applied to the periphery of the respective crankshaft wheels on the same side of each crankshaft 1. The crankshafts 1 thus rotate in opposite senses and are in a constant phase. The gears may alternatively be applied to the shafts 5 in a location external to the crankcase 16 in order to achieve the same effect.

IPC 1-7

F16C 3/06; **F02B 75/06**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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